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W-41 LONG

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TO
FROM
SUBJECT
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In accordance with your request to [] further copies of the interim report for Contract [] are being dispatched under separate cover.

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We have completed our test work on Type 4400 film processed at elevated temperatures, and are preparing test exposures on film Type 4404.

We recently had an interesting discussion with [] from SAC headquarters which leads us to feel that, if correct, we might be advised to work on the film types concerned before testing Type 4404.

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Apparently, the most commonly used negative aerial film by both SAC and TAC units is Type 4401, exposure index 64-Daylight. This film is generally used for high altitude reconnaissance flights. It is processed by SAC to a gamma of 2.2 to 2.3, and by TAC to a gamma of 1.0. Both organizations use developer 4DS at 75°F. The aerial duplicating film used by SAC is 228R processed to a gamma of 1.3. The aerial duplicating film used by TAC is Type 5427 processed to a gamma of 1.0. Both organizations use developer 16D at 70°F.

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[] also stated that they process negative film 15 feet per minute and duplicate film at 25 feet per minute, which is apparently considered much too slow.

Since these facts, if correct, have a direct bearing on our program I would be grateful if you are able to check them and confirm or otherwise.

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IR/mm